

ABSTRACT OF THE DISCLOSURE

An image guided navigation system for navigating a region of a patient includes an imaging device, a tracking device, a controller, and a display. The imaging device generates images of the region of a patient. The tracking device tracks the location of the instrument in a region of the patient. The controller superimposes an icon representative of the instrument onto the images generated from the imaging device based upon the location of the instrument. The display displays the image with the superimposed instrument. The images and a registration process may be synchronized to a physiological event. The controller may also provide and automatically identify an optimized site to navigate the instrument to.